

ABSTRACT OF THE DISCLOSURE

A hyper-spectral imaging system comprises imaging foreoptics to focus on a scene or object of interest and transfer the image of said scene or object onto the focal plane of a spatial light modulator, a spatial light modulator placed at a focal plane of said imaging foreoptics, an imaging dispersion device disposed to receive an output image of said spatial light modulator, and an image collecting device disposed to receive the output of said imaging dispersion device.